

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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basic imagery interpretation report

# **Activity and Developments at Selected Soviet SLBM Production and Test Facilities (TSR)**

**STRATEGIC WEAPONS INDUSTRIAL FACILITIES**

**BE: Various**

**USSR**

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INSTALLATION OR ACTIVITY NAME					COUNTRY
Activity and Developments at Selected Soviet SLBM Production and Test Facilities					UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NO.	COMIREX NO.	NIETB NO.
NA	See below	See below	See below	See below	See below

MAP REFERENCE

ACIC, USATC, Series 200, Sheets 0159-23 and 0164-7, scale 1:200,000

LATEST IMAGERY USED	NEGATION DATE if required
	NA

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Installation Name	Geographic Coordinates	Category	BE No	COMIREX No	NIETB (MRN) No
Krasnoyarsk Arms Plant Voroshilov 4	56-00-54N 092-59-13E				
Zlatoust Armament Plant 66	55-06-17N 059-42-23E				
Krasnoyarsk Rocket Engine Test Facility	56-06-14N 093-25-50E				
Zlatoust Rocket Engine Test Facility	55-08-37N 059-54-55E				
Zlatoust SLBM Assembly Facility	55-08-33N 059-52-56E				
Miass Missile Research and Development Facility	55-06-40N 060-08-20E				

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**ABSTRACT**

1. (TSR) This report describes construction and developments observed since late 1978 at selected Soviet submarine-launched ballistic missile (SLBM) production and test facilities; it updates a previous NPIC report, [REDACTED]

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2. (TSR) Construction continued on the fabrication buildings and other support buildings at both Krasnoyarsk Arms Plant Voroshilov 4 and Zlatoust Armament Plant 66. Also at Plant 66, probable SS-N-5 reentry vehicle (RV) canisters were observed in the transshipment area of the plant on several occasions.

3. (TSR) Construction was also evident at Krasnoyarsk and Zlatoust Rocket Engine Test Facilities (RETFs). At Krasnoyarsk RETF the new high-bay building had been completed, and construction continued in several other areas of the facility. At Zlatoust RETF the addition to the receiving/checkout building had been completed, and construction of several other buildings in the facility continued. An unidentified railcar was observed on the railspur near the test stand at Zlatoust in April 1979.

4. (TSR) Extensive construction continued at the Zlatoust SLBM Assembly Facility, which is adjacent to Zlatoust RETF. It is believed that this facility will be associated with solid-propellant SLBMs.

5. (TSR) Miass Missile Research and Development Facility has also continued to undergo additional construction changes during the past year. A new probable laboratory/test building was under construction in the central part of the facility.

6. (U) This report contains six annotated photographs.

**BASIC DESCRIPTION****Krasnoyarsk Arms Plant Voroshilov 4**

7. (TSR) Plant 4 (Figure 1), which has long been associated with the production of liquid-propellant SLBMs, has been involved in an extensive construction program since 1974.<sup>1</sup> The major emphasis has been on a new large fabrication building in the central part of the plant. As of September 1979, the building was almost externally complete, with final work being accomplished on its northwest corner. Other construction during the reporting period consisted of modification or maintenance

work on several buildings, the construction of several small support buildings, and the razing of the old heating plant. Construction has also continued in the large area just south of the fabrication building under construction. Support structures for at least two buildings had been erected in the area, and footings for a third had been prepared.

8. (TSR) This current phase of construction at Krasnoyarsk may be for an increased production capability for present missile systems, or it may be in preparation for a new or modified system.<sup>2</sup>

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10. (TSR) Numerous pieces of possible missile-related hardware, such as probable handling rings and conical objects that ranged in diameter from [redacted] meters, were observed in several areas of the plant. Several [redacted] cylindrical objects were observed in the transshipment area of the plant (Figure 3). These objects are similar in size and appearance to SS-N-5 RV canisters that had been previously identified at Plant 66.

**Krasnoyarsk Rocket Engine Test Facility**

11. (TSR) Krasnoyarsk RETF (Figure 4) is the acceptance test facility for rocket engines produced at Plant 4 as well as the assembly, cleaning, and refurbishment facility for liquid-propellant SLBMs. During the past several years there has been a gradual but definite upgrading of the facility. In January 1979 the new enlarged cooling rack appeared to be operational, and in April the new high-bay building appeared to be externally complete. Also, a [redacted] cylindrical structure resembling a vertical storage tank was constructed in the possible test area, and piping was installed to a subsurface structure next to it. Other activity at the facility since September 1978 included: the continuing construction of several buildings, the extension and modification of the oxidizer building, the construction of a new storage tank, and new construction in the barracks area. The number of propellant run/storage tanks had increased from five to 14 by May 1979; however, by August all of the tanks had been removed from the area.

12. (TSR) While there was no positive photographic evidence of test activity at the test stands, other activity at the facility—such as the presence of missile component railcars and movement of support equipment within the facility—indicates that the facility continues to be operational, and that preparations may be underway for an increase in its capabilities for handling present missile systems or a new or modified system.

**Zlatoust Rocket Engine Test Facility**

13. (TSR) Zlatoust RETF (Figure 5) has also been involved in an expansion program during the past several years. An addition to the receiving/checkout building was recently completed, and construction continued on the buildings near the test stand and in the cleaning area. Construction of a new building has begun near the steamplant. In April 1979 a long, flatbed railcar carrying an unidentified, canvas-covered, [redacted] structure was observed on the railspur leading to the oxidizer receiving, storage, and transfer building. The railcar was at the facility during the remainder of the reporting period.

**Zlatoust SLBM Assembly Facility**

14. (TSR) This newly designated facility adjacent to Zlatoust RETF (Figure 5) has been under construction since early 1976. The configuration of the facility strongly suggests that it will be associated with a solid-propellant missile system.<sup>4</sup> In the past year the major construction has been on the two assembly buildings and the long service bay. Construction also continued on the buildings northwest of the service bay and in the area southeast of the assembly building. Installation of the rail and utility lines serving the new facility continued throughout the reporting period.

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#### **Miass Missile Research and Development Facility**

15. (TSR) At Miass (Figure 6) the amount of construction has increased significantly since September 1978. A probable laboratory/test building was under construction near the large fabrication building and is approximately 100 by 24 by 40 meters. Work was continuing on the roof, and footings had been prepared for further enlargement of the building. A foundation and footings were also prepared for another building in the central part of the facility. The foundation was approximately 71

by 35 meters and was about 3 meters deep. Several support buildings were also completed during the reporting period, increasing the capability of the facility to handle present or future SLBM programs.

16. (TSR) Along with the construction, possible missile-related equipment was observed in several areas of the facility. Possible handling rings were observed along with two cylindrical objects, [ ] in diameter, that were on the railline near the structural test building. A [ ] rectangular object was adjacent to these two objects.

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**Top Secret RUFF****REFERENCES****IMAGERY**

(TSR) All interpretable KEYHOLE imagery acquired from [ ] 25X1  
[ ] was used in the preparation of this report. 25X1

**MAPS OR CHARTS**

ACIC. US Air Target Chart, Series 200, Sheets 0159-23 and 0164-7, scale 1:200,000 (UNCLASSIFIED)

**DOCUMENTS**

1. NPIC. [ ] RCA-09/0046/78, *Activity and Developments at Selected Soviet Production and Test Facilities (TSR)*, Jan 79 (TOP SECRET [ ]) 25X1  
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2. NPIC. [ ] PIR-034/79, *Indications of a Probable New or Modified Liquid-Propellant SLBM Under Development in the USSR (TSR)*, Apr 79 (TOP SECRET [ ]) 25X1  
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3. CIA. [ ] IAS/TSD 31/76, *SLBM Reentry Vehicle Canisters at Zlatoust Armament Plant 66*, 1 Apr 76 (TOP SECRET [ ]) 25X1  
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4. NPIC. [ ] SR-030/78, *Construction Activity at Zlatoust Rocket Engine Test Facility, USSR (TSR)*, Apr 78 (TOP SECRET [ ]) 25X1  
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**RELATED DOCUMENT**

NPIC. [ ] RCA-09/0045/69, *Krasnoyarsk Arms Plant Voroshilov 4*, Apr 69 (TOP SECRET [ ]) 25X1

**REQUIREMENT**

COMIREX J02  
Project 290057DJ

(S) Comments and queries regarding this report are welcome. They may be directed to [ ] Soviet 25X1  
Strategic Forces Division, Imagery Exploitation Group, NPIC, [ ] 25X1



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